

# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AIR QUALITY PROGRAM

#### **PLAN APPROVAL**

Issue Date: June 29, 2015 Effective Date: June 29, 2015
Revision Date: June 29, 2015 Expiration Date: April 14, 2016

Revision Type: Modification

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to construct, install, modify or reactivate the air emission source(s) more fully described in the site inventory list. This Facility is subject to all terms and conditions specified in this plan approval. Nothing in this plan approval relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

#### Plan Approval No. 23-0003Y

Federal Tax Id - Plant Code: 45-5201144-1

#### Owner Information

Name: MONROE ENERGY LLC

Mailing Address: 4101 POST RD

TRAINER, PA 19061-5052

#### Plant Information

Plant: MONROE ENERGY LLC/TRAINER

Location: 23 Delaware County 23949 Trainer Borough

SIC Code: 2911 Manufacturing - Petroleum Refining

### Responsible Official

Name: JEFFREY K WARMANN Title: CEO & PRESIDENT Phone: (610) 364 - 8020

#### Plan Approval Contact Person

Name: MATT TORELL

Title: ENVIRONMENTAL LEADER

Phone: (610) 364 - 8399

[Signature]

JAMES D. REBARCHAK, SOUTHEAST REGION AIR PROGRAM MANAGER



MONROE ENERGY LLC/TRAINER



# Plan Approval Description

This Plan Approval is issued to the permittee for the installation of a reconstructed boiler burning gas 1 fuels.





#### **SECTION A. Table of Contents**

#### Section A. Facility/Source Identification

Table of Contents
Plan Approval Inventory List

#### Section B. General Plan Approval Requirements

#001	1 ) otin	itions
#UU I	Delli	แแบบเอ

- #002 Future Adoption of Requirements
- #003 Plan Approval Temporary Operation
- #004 Content of Applications
- #005 Public Records and Confidential Information
- #006 Plan Approval terms and conditions.
- #007 Transfer of Plan Approvals
- #008 Inspection and Entry
- #009 Plan Approval Changes for Cause
- #010 Circumvention
- #011 Submissions
- #012 Risk Management
- #013 Compliance Requirement

#### Section C. Site Level Plan Approval Requirements

- C-I: Restrictions
- C-II: Testing Requirements
- C-III: Monitoring Requirements
- C-IV: Recordkeeping Requirements
- C-V: Reporting Requirements
- C-VI: Work Practice Standards
- C-VII: Additional Requirements
- C-VIII: Compliance Certification
- C-IX: Compliance Schedule

#### Section D. Source Level Plan Approval Requirements

- D-I: Restrictions
- D-II: Testing Requirements
- D-III: Monitoring Requirements
- D-IV: Recordkeeping Requirements
- D-V: Reporting Requirements
- D-VI: Work Practice Standards
- D-VII: Additional Requirements

Note: These same sub-sections are repeated for each source!

#### Section E. Alternative Operating Scenario(s)

- E-I: Restrictions
- E-II: Testing Requirements
- E-III: Monitoring Requirements
- E-IV: Recordkeeping Requirements
- E-V: Reporting Requirements
- E-VI: Work Practice Standards
- E-VII: Additional Requirements

#### Section F. Emission Restriction Summary





# **SECTION A. Table of Contents**

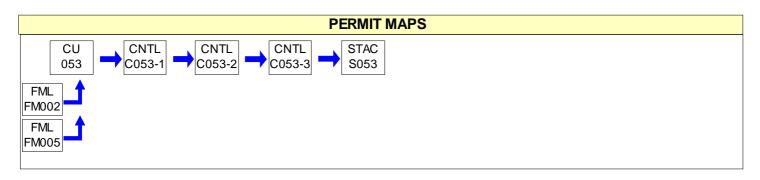
Section G. Miscellaneous





# SECTION A. Plan Approval Inventory List

Source II	D Source Name	Capacity/Throughput	Fuel/Material
053	BOILER 14	346.900 MMBTU/HR	
C053-1	LNB & FGR (BOILER 14)		
C053-2	SCR (BOILER 14)		
C053-3	OXIDATION CATALYST (BOILER 14)		
FM002	NORTH SIDE FUEL GAS SYSTEM (RFG)		
FM005	NATURAL GAS		
S053	BOILER 14 STACK		





#### #001 [25 Pa. Code § 121.1]

#### **Definitions**

Words and terms that are not otherwise defined in this plan approval shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

#### #002 [25 Pa. Code § 127.12b (a) (b)]

#### **Future Adoption of Requirements**

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

#### #003 [25 Pa. Code § 127.12b]

#### **Plan Approval Temporary Operation**

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

- (a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.
- (b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.
- (c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.
- (d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 15 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.
- (e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

#### #004 [25 Pa. Code § 127.12(a) (10)]

#### **Content of Applications**

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

#### #005 [25 Pa. Code §§ 127.12(c) and (d) & 35 P.S. § 4013.2]

#### **Public Records and Confidential Information**

- (a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.
- (b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the



competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. § § 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws, or when relevant in a proceeding under the act.

#### #006 [25 Pa. Code § 127.12b]

#### Plan Approval terms and conditions.

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

- (a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.
- (b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:
  - (i) A justification for the extension,
  - (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

#### #007 [25 Pa. Code § 127.32]

#### **Transfer of Plan Approvals**

- (a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.
- (b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.
- (c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

#### #008 [25 Pa. Code § 127.12(4) & 35 P.S. § 4008 & § 114 of the CAA]

# Inspection and Entry

- (a) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.
- (b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.



(c) Nothing in this plan approval condition shall limit the ability of the Environmental Protection Agency to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#### #009 [25 Pa. Code 127.13a]

#### **Plan Approval Changes for Cause**

This plan approval may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

- (a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.
- (b) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.
- (c) The permittee fails to submit a report required by this plan approval.
- (d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

#### #010 [25 Pa. Code §§ 121.9 & 127.216]

#### Circumvention

- (a) The permittee, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.
- (b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this plan approval, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#### #011 [25 Pa. Code § 127.12c]

#### **Submissions**

Reports, test data, monitoring data, notifications shall be submitted to the:

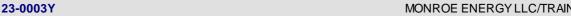
Regional Air Program Manager
PA Department of Environmental Protection
(At the address given on the plan approval transmittal letter or otherwise notified)

#### #012 [25 Pa. Code § 127.12(9) & 40 CFR Part 68]

# Risk Management

- (a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).
- (b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the facility. The permittee shall submit the RMP to the Environmental Protection Agency according to the following schedule and requirements:
- (1) The permittee shall submit the first RMP to a central point specified by the Environmental Protection Agency no later than the latest of the following:





- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.
- (2) The permittee shall submit any additional relevant information requested by the Department or the Environmental Protection Agency concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.
- (3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.
- (c) As used in this plan approval condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

#### #013 [25 Pa. Code § 127.25]

### **Compliance Requirement**

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.



#### I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

#### II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

#### III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

#### IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

#### V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

#### VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

#### VII. ADDITIONAL REQUIREMENTS.

#### # 001 [25 Pa. Code §127.208]

ERC use and transfer requirements.

The permittee shall use and transfer Emission Reduction Credits (ERCs) in accordance with 25 Pa. Code §127.208.

# # 002 [25 Pa. Code §127.210]

Offset ratios.

- (a) The 10-year aggregated NOx emission increases including this project are 117.14 tons.
- (b) The permittee shall provide NOx ERCs at a 1.3:1.0 ratio to offset the net emission increase of 117.14 tons as per 25 Pa. Code §§127.205(3) and 127.210. The required NOx ERCs are 152.28 tons.
- (c) The permittee provided 146.20 tons of NOx ERCs through Plan Approval No. 23-0003X issued on March 13, 2014.
- (d) The permittee had 1.4 tons of NOx ERCs in Pennsylvania's Registry. This Plan Approval authorizes the use of 1.08 tons of the NOx ERCs in the Pennsylvania's Registry for this project. The NOx ERCs remaining in the Pennsylvania's Registry are 0.32 tons.
- (e) This Plan Approval authorizes the transfer and use of 5.0 tons of NOx ERC for offset purpose at Monroe's Trainer Refinery in accordance with 25 Pa. Code §127.208(2).
- (1) The 5.0 tons of NOx ERC were generated from the shutdown sources Sasol Chemicals (USA), LLC, Baltimore City, Maryland, on July 17, 2007. These NOx ERCs were certified by Maryland State Department of the Environment on December 29, 2014. These NOx ERC were owned by Sasol Chemical, LLC. prior to this transfer.
- (2) Monroe Energy, LLC is a holder of the 5.0 tons NOx ERC. This Plan Approval is in accordance with the requirements of 25 Pa. Code Chapter 127, Subpart E New Source Review, §127.205(3).
- (3) Pursuant to 25 Pa. Code §127.208(2), upon the issuance of this amended Plan Approval, the 5.0 tons of NOx ERCs, not







generated by the over-control of emissions, are no longer subject to the 10-year expiration date under 25 Pa. Code §127.206(f), except as specified in 25 Pa. Code §127.206(g). If the 5.0 tons NOx ERC identified in this Plan Approval are not used and are subsequently reentered into the ERC registry, these NOx ERCs will expire on July 17, 2017.

(f) By providing total of 152.28 tons of NOx ERCs, the permittee has met the requirement of Condition #001 of this Section.

#### VIII. COMPLIANCE CERTIFICATION.

23-0003Y

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).

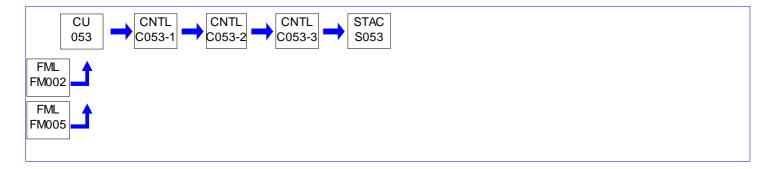
#### IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.



Source ID: 053 Source Name: BOILER 14

Source Capacity/Throughput: 346.900 MMBTU/HR



#### I. RESTRICTIONS.

#### **Emission Restriction(s).**

#### # 001 [25 Pa. Code §123.41]

#### Limitations

The permittee shall not cause the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- (1) Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour.
- (2) Equal to or greater than 60% at any time.

#### # 002 [25 Pa. Code §127.12b]

#### Plan approval terms and conditions.

- (a) The permittee shall not cause to be discharged into the atmosphere from this boiler any gases that contains:
- (i) NOx emissions in excess of 0.0077 lb/MMBtu, and 11.70 tons per 12-month rolling sum.
- (ii) CO emissions in excess of 0.0195 lb/MMBtu, and 29.63 tons per 12-month rolling sum;
- (iii) SO2 emissions in excess of 12.02 tons per 12-month rolling sum;
- (iv) PM (filterable) emissions in excess of 0.007 lb/MMBtu, and 10.64 tons per 12-month rolling sum;
- (v) PM10 (filterable + condensable) emissions in excess of 0.0089 lb/MMBtu, and 13.52 tons per 12-month rolling sum;
- (vi) PM2.5 (filterable + condensable) emissions in excess of 0.0089 lb/MMBtu and 9.9 tons per 12-month rolling sum; and
- (vii) VOC emissions in excess of 0.0013 lb/MMBtu, and 1.98 tons per 12-month rolling sum.
- (b) Except for NOx and SO2 emission limits, compliance with the above emission limits that are expressed as lb/MMBtu is determined by averaging the emissions measured through three (3) 1-hour test runs.
- (c) The emissions of ammonia from the SCR system shall not exceed 10 ppmvd, corrected to 3% oxygen, as measured and averaged through three (3) 1-hour test runs.
- (d) In the event that PM2.5 emissions do not comply with the emission limit established in this Plan Approval, the permittee must reduce the boiler operating hours, or capacity, or fuel usage, etc. to ensure PM2.5 emissions do not exceed 9.9 tons per year. The restriction, if necessary, will be established based on stack test results, and shall be specified in the Operating Permit when issued.

[Compliance with the emission limit for NOx (in lbs/MMBTU) in the conditions above also demonstrates compliance with the applicable limits for NOx in 40 C.F.R. §60.44b(a).]



# 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.44b] Subpart Db - Standards of Performance for Industrial- Commercial-Institutional Steam Generating Units Standard for nitrogen oxides.

- (a) The NOx standard applies at all times including periods of startup, shutdown, or malfunction, as per 40 C.F.R. §60.44b(h).
- (b) Compliance with the NOx emission limit in lb/MMBtu is determined on a 30-day rolling average basis, as per 40 C.F.R. §60.44b(i).

#### Fuel Restriction(s).

#### # 004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The boiler shall only be operated on Refinery Fuel Gas (RFG) and/or Natural Gas.

# 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.102a] SUBPART Ja - Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007

**Emissions limitations.** 

The permittee shall not burn in this boiler any fuel gas that contains H2S in excess of

- (a) 162 ppmv determined hourly on a 3-hour rolling average basis; and
- (b) 60 ppmv determined daily on a 365 successive calendar day rolling average basis.

# 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7499]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.

What are the subcategories of boilers and process heaters?

As per 40 C.F.R. §63.7499(I), the boiler is in the subcategory of units designed to burn gas 1 fuels.

# Control Device Efficiencies Restriction(s).

#### # 007 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

- (a) The NOx emissions from the boiler shall be reduced by selective catalytic reduction (SCR) system.
- (b) The CO and VOC emissions from the boiler shall be reduced by an oxidation catalyst. The oxidation catalyst shall be operated to maintain a minimum catalyst bed inlet temperature in °F as determined from the results of performance testing. The minimum inlet temperature shall be maintained at all times when the boiler is operating, except during periods of startup, shutdown, and malfunction.

# II. TESTING REQUIREMENTS.

# # 008 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Additional authority for this permit condition is derived from 40 C.F.R. §§60.8, 60.46b, and 60.104a.]

- (a) Within 60 days after achieving the maximum production rate, but no later than 180 days after the initial start-up of the boiler, the permittee shall conduct performance test(s) on the boiler for NOx, CO, PWPM10/PM2.5, VOC, and SO2 emissions in accordance with Chapter 139 of the Rules and Regulations of the Department and 40 C.F.R. Part 60 Subparts Db and Ja to show compliance. The test shall be performed while the boiler is operating at its maximum rated capacity as stated in the application.
- (b) The permittee shall establish the CO catalyst minimum inlet temperature based on the stack test results.
- (c) At least 60 days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative





samples.

23-0003Y

- (e) At least 30 days prior to the test, the Regional Manager shall be notified of the date and time of the test.
- (f) Within 60 days after the test, two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Manager for approval.

[40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.104a] SUBPART Ja - Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or **Modification Commenced After May 14, 2007** Performance tests.

As per 40 C.F.R. §60.104a(a), (c) and (j), the permittee shall determine compliance with the fuel gas H2S limit in 40 C.F.R. §60.102a(g)(1)(ii) according to the following test methods and procedures:

- (1) Method 1 of appendix A-1 to 40 C.F.R. part 60 for sample and velocity traverses;
- (2) Method 2 of appendix A-1 to 40 C.F.R. part 60 for velocity and volumetric flow rate;
- (3) Method 3, 3A, or 3B of appendix A-2 to 40 C.F.R. part 60 for gas analysis. The method ANSI/ASME PTC 19.10-1981, "Flue and Exhaust Gas Analyses," (incorporated by reference-see 40 C.F.R. §60.17) is an acceptable alternative to EPA Method 3B of appendix A-2 to 40 C.F.R. part 60;
- (4)Method 11, 15, or 15A of appendix A-5 to 40 C.F.R. part 60 or Method 16 of appendix A-6 to part 60 for determining the H2S concentration using an H2S monitor as specified in 40 C.F.R. §60.107a(a)(2). The method ANSI/ASME PTC 19.10-1981, "Flue and Exhaust Gas Analyses," (incorporated by reference - see 40 C.F.R. §60.17) is an acceptable alternative to EPA Method 15A of appendix A-5 to 40 C.F.R. part 60. The permittee may demonstrate compliance based on the mixture used in the boiler.
- (i) For Method 11 of appendix A-5 to 40 C.F.R. part 60, the sampling time and sample volume must be at least 10 minutes and 0.010 dscm (0.35 dscf). Two samples of equal sampling times must be taken at about 1-hour intervals. The arithmetic average of these two samples constitutes a run. For most fuel gases, sampling times exceeding 20 minutes may result in depletion of the collection solution, although fuel gases containing low concentrations of H2S may necessitate sampling for longer periods of time.
- (ii) For Method 15 of appendix A-5 to 40 C.F.R. part 60, at least three injects over a 1-hour period constitutes a run.
- (iii) For Method 15A of appendix A-5 to 40 C.F.R. part 60, a 1-hour sample constitutes a run. The method ANSI/ASME PTC 19.10-1981, "Flue and Exhaust Gas Analyses," (incorporated by reference - see 40 C.F.R. §60.17) is an acceptable alternative to EPA Method 15A of appendix A-5 to 40 C.F.R. part 60.
- (iv) If monitoring is conducted at a single point in a common source of fuel gas as allowed under 40 C.F.R. §60.107a(a)(2)(iv), only one performance test is required. That is, performance tests are not required when a new affected fuel gas combustion device is added to a common source of fuel gas that previously demonstrated compliance.
- # 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.46b] Subpart Db - Standards of Performance for Industrial- Commercial-Institutional Steam Generating Units Compliance and performance test methods and procedures for particulate matter and nitrogen oxides.
- As per 40 C.F.R. §60.46b(c) and (e), to determine compliance with the emission limit for NOx required under 40 C.F.R. §60.44b, the permittee shall conduct the performance test as required under 40 C.F.R. §60.8 using the continuous system for monitoring NOx under 40 C.F.R. §60.48b(b).
- (a) As per 40 C.F.R. §60.46b(e)(1), for the initial compliance test, NOx emissions from this unit are monitored for 30 successive unit operating days and the 30-day average emission rate is used to determine compliance with the NOx emission standard of 0.20 lb/MMBtu under 40 C.F.R. §60.44b(a)(1)(ii) and 0.0077 lb/MMBtu established under Condition #002 above. The 30-day average emission rate is calculated as the average of all hourly emissions data recorded by the monitoring system during the 30-day test period.



(b) As per 40 C.F.R. §60.46b(e)(3), following the date on which the initial performance test is completed or is required to be completed under 40 C.F.R. §60.8, whichever date comes first, the permittee shall determine compliance with the NOx standards under 40 C.F.R. §60.44b on a continuous basis through the use of a 30-day rolling average emission rate. A new 30-day rolling average emission rate is calculated each unit operating day as the average of all of the hourly NOx emission data for the preceding 30 unit operating days.

#### III. MONITORING REQUIREMENTS.

# # 011 [25 Pa. Code §127.12b] Plan approval terms and conditions.

(a) This boiler must be equipped with the following continuous emission monitoring systems (CEMS) approved by the Department, operated and maintained in accordance with the requirements of 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), and the Submittal and Approval", "Recordkeeping and Reporting" and "Quality Assurance" requirements of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

(1) CEMS #1

Parameters Limit and Units Averaging Time Period

NO2 0.0077 lb/MMBtu heat Input 30-day average, rolling by 1 day O2 (or CO2) % 30-day average, rolling by 1 day

(2) CEMS #2

Source name: North Yard Fuel Gas System

Parameter Units Limits and averaging time period

H2S ppmv 162 ppmv - 3-hour average, rolling by 1 hour, and

60 ppmv - 365-day average, rolling by 1 day

Using the Department certified H2S monitoring system (SCIC: 5) for the North Yard Fuel Gas System fulfills this requirement.

- (b) Certification and Testing Requirements
- (1) Initial application (Phase I)

A proposal containing information as listed in the Phase I section of the Department's Continuous Source Monitoring Manual for the CEMS must be submitted no later than 180 days prior to the planned initial source startup date.

(2) Performance testing (Phase II)

Testing as listed in the Phase II section of the Department's Continuous Source Monitoring Manual must be completed for the CEMS no later than 180 days after initial source startup date and no later than 60 days after source achieves normal process capacity.

(3) Final approval (Phase III)

The final report of testing as listed in the Phase III section of the Department's Continuous Source Monitoring Manual must be submitted to the Bureau no later than 60 days after completion of testing.

- (4) The permittee will not be issued an operating permit until the Department issues approval of Phase III in writing.
- (c) The permittee shall install, operate, and maintain a device to continuously measure, indicate, and record the inlet



temperature of the catalyst bed.

# 012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.107a] SUBPART Ja - Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007

Monitoring of emissions and operations for fuel gas combustion devices and flares.

- (a) As per 40 C.F.R. §60.107a(a)(2), the permittee shall install, operate, calibrate, and maintain an instrument for continuously monitoring and recording the concentration by volume (dry basis) of H2S in the fuel gases before being burned in the boiler.
- (i) The permittee shall install, operate, and maintain each H2S monitor according to Performance Specification 7 of appendix B to 40 C.F.R. part 60. The span value for this instrument is 300 ppmv H2S.
- (ii) The permittee shall conduct performance evaluations for the H2S monitor according to the requirements of 40 C.F.R. §60.13(c) and Performance Specification 7 of appendix B to 40 C.F.R. part 60. The permittee shall use Method 11, 15, or 15A of appendix A-5 to 40 C.F.R. part 60 or Method 16 of appendix A-6 to part 60 for conducting the relative accuracy evaluations.
- (iii) The permittee shall comply with the applicable quality assurance procedures in appendix F to 40 C.F.R. part 60 for each H2S monitor.
- (iv) Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location, if monitoring at this location accurately represents the concentration of H2S in the fuel gas being burned.
- (b) As per 40 C.F.R. §60.107a(i), for the purpose of reports required by 40 C.F.R. §60.7(c), periods of excess emissions for the boiler are defined in 40 C.F.R. §60.107a(i)(1)(ii) below:

All rolling 3-hour periods during which the average concentration of H2S as measured by the H2S continuous monitoring system exceeds 162 ppmv, all days in which the concentration of H2S as measured by daily stain tube sampling exceeds 162 ppmv, and all rolling 365-day periods during which the average concentration as measured by the H2S continuous monitoring system exceeds 60 ppmv.

- # 013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48b] Subpart Db Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units Emission monitoring for particulate matter and nitrogen oxides.
- (a) As per 40 C.F.R. §60.48b(b)(1), the permittee shall install, calibrate, maintain, and operate CEMS for measuring NOx and O2 (or CO2) emissions discharged to the atmosphere, and shall record the output of the system.
- (b) As per 40 C.F.R. §60.48b(c), the CEMS shall be operated and data recorded during all periods of operation of the boiler except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.
- (c) As per 40 C.F.R. §60.48b(d), the 1-hour average NOx emission rates measured by the continuous NOx monitor required by 40 C.F.R. §§60.48b(b) and 60.13(h) shall be expressed in lb/MMBtu heat input and shall be used to calculate the average emission rates under 40 C.F.R. §60.44b. The 1-hour averages shall be calculated using the data points required under 40 C.F.R. §60.13(h)(2).
- (d) As per 40 C.F.R.  $\S60.48b(e)(2)$ , the procedures under 40 C.F.R.  $\S60.13$  shall be followed for installation, evaluation, and operation of the continuous monitoring systems. The NOx span value is 500ppm.
- (e) As per 40 C.F.R. §60.48b(f), when NOx emission data are not obtained because of CEMS breakdowns, repairs, calibration checks and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7 of appendix A of this part, Method 7A of appendix A of this part, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive unit operating days.



#### IV. RECORDKEEPING REQUIREMENTS.

# # 014 [25 Pa. Code §127.12b] Plan approval terms and conditions.

[Additional authority for this permit condition is derived from 40 C.F.R. §63.7560.]

- (a) The permittee must keep a copy of each notification and report submitted to comply with this Plan Approval, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted.
- (b) The records shall be in a form suitable and readily available for expeditious review.
- (c) The permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- (d) The permittee shall keep each record on site, or they must be accessible from on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The records can be kept off site for the remaining 3 years.
- (e) The permittee shall comply with the recordkeeping requirements established in 40 C.F.R. 60 Subparts Db and Ja, and 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), and the recordkeeping and reporting requirements in Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001. Compliance with any subsequently issued revisions to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.
- (f) The permittee shall keep records of the inlet temperature of the catalyst bed.
- (g) The permittee shall keep records of emissions for NOx, CO, SO2, PM, PM10, PM2.5, and VOC in tons on a monthly basis and 12-month rolling sum.
- # 015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.49b] Subpart Db Standards of Performance for Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.
- (a) As per 40 C.F.R. §60.49b(d), the permittee shall record and maintain records of the amounts of each fuel combusted during each day for the reporting period.
- (b) As per 40 C.F.R. §60.49b(g) and (i), the permittee shall maintain records of the following information for each operating day:
- (1) Calendar date;
- (2) The average hourly NOx emission rates (expressed as NO2) (lb/MMBtu heat input) measured or predicted;
- (3) The 30-day average NOx emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days;
- (4) Identification of the steam generating unit operating days when the calculated 30-day average NOx emission rates are in excess of the NOx emissions standards under 40 C.F.R. §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken;
- (5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;
- (6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;
- (7) Identification of the times when the pollutant concentration exceeded full span of the CEMS;



- (8) Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and
- (9) Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1 of 40 C.F.R. Part 60.

#### # 016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7555]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.

What records must I keep?

- (a) The permittee must keep:
- (1) A copy of each notification and report submitted to comply with 40 C.F.R. 63 Subpart DDDDD, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted, according to the requirements in §63.10(b)(2)(xiv).
- (2) Records of compliance demonstrations as required in 40 C.F.R. §63.10(b)(2)(viii).
- (b) The permittee must maintain records of the calendar date, time, occurrence and duration of each startup and shutdown.
- (c) The permittee must maintain records of the type(s) and amount(s) of fuels used during each startup and shutdown.

#### V. REPORTING REQUIREMENTS.

# 017 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.108a] SUBPART Ja - Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007 Recordkeeping and reporting requirements.

- (a) As per 40 C.F.R. §60.108a(a) and (b), the permittee shall comply with the notification, and reporting requirements in 40 C.F.R. §60.7 and other requirements as specified in this section.
- (b) The permittee shall notify the Department of the specific monitoring provisions of 40 C.F.R. §60.107a. Notification shall be submitted with the notification of initial startup required by 40 C.F.R. §60.7(a)(3).
- (c) As per 40 C.F.R. §60.108a(d), the permittee shall submit an excess emissions report for all periods of excess emissions according to the requirements of 40 C.F.R. §60.7(c) except that the report shall contain the information specified below:
- (1) The date that the exceedance occurred;
- (2) An explanation of the exceedance;
- (3) Whether the exceedance was concurrent with a startup, shutdown, or malfunction of the boiler; and
- (4) A description of the action taken, if any.
- (5) For any periods for which monitoring data are not available, any changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit. Operations of the control system and affected facility during periods of data unavailability are to be compared with operation of the control system and affected facility before and following the period of data unavailability.
- (6) A written statement, signed by a responsible official, certifying the accuracy and completeness of the information contained in the report.

# 018 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.49b]



# Subpart Db - Standards of Performance for Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.

- (a) The permittee shall submit notification of the date of initial startup, as provided by 40 C.F.R. §60.7. This notification shall include the design heat input capacity of the boiler and the fuels to be combusted in the boiler.
- (b) The permittee shall submit to the Department the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in appendix B of 40 C.F.R. Part 60.
- (c) As per 40 C.F.R. §60.49b(h), the permittee shall submit excess emission reports for NOx excess emissions that occurred during the reporting period.
- (d) As per 40 C.F.R. §60.49b(v), the permittee may submit electronic quarterly reports for NOx in lieu of submitting the written reports required under 40 C.F.R. §60.49b(h) and (i). The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the permittee, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the permittee shall coordinate with DEP to obtain their agreement to submit reports in this alternative format.
- (e) As per 40 C.F.R. §60.49b(w), the reporting period is each 6 month period. All reports shall be submitted to DEP and shall be postmarked by the 30th day following the end of the reporting period.

#### # 019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7545]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.

#### What notifications must I submit and when?

- (a) As per 40 C.F.R. §63.7545(c), the permittee must submit an Initial Notification not later than 15 days after the actual date of startup of the boiler.
- (b) As per 40 C.F.R. §§63.7530(f) and 63.7545(e), the permittee must submit the Notification of Compliance Status containing the following information:
- (1) A description of the boiler including identification of which subcategory the boiler is in, the design heat input capacity of the boiler, description of the fuel(s) burned.
- (2) In addition to the information required in 40 C.F.R. §63.9(h)(2), the notification of compliance status must include the following certification of compliance, and signed by a responsible official:

"This facility complies with the required initial tune-up according to the procedures in 40 C.F.R. §63.7540(a)(10)(i) through (vi)."

#### # 020 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7550]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.

# What reports must I submit and when?

- (a) As per 40 C.F.R. §63.7550(a) and (c)(1) and (c)(5), the permittee must submit each compliance report that contains the following:
- (i) Company and Facility name and address.
- (ii) Process unit information.
- (iii) Date of report and beginning and ending dates of the reporting period.
- (iv) The total operating time during the reporting period.
- (xiv) Include the date of the most recent tune-up for the boiler. Include the date of the most recent burner inspection if it was not done on a 5 year period and was delayed until the next scheduled or unscheduled unit shutdown.



- (b) As per 40 C.F.R. §63.7550(b), the permittee must submit each report, according to 40 C.F.R. §63.7550(h), according to the requirements in paragraph (1) through (4) below.
- (1) The first 5-year compliance report must cover the period beginning on the date of the boiler startup and ending January 31, 5 years after the boiler startup date.
- (2) The first 5-year compliance report must be postmarked or submitted no later than January 31.
- (3) 5-year compliance reports must cover the applicable 5-year periods from January 1 to December 31.
- (4) 5-year compliance reports must be postmarked or submitted no later than January 31.
- (c) As per 40 C.F.R. §63.7550(h)(3), the permittee must submit all reports required electronically using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the permittee must submit the report to DEP at the appropriate address listed in 40 C.F.R. §63.13. At the discretion of DEP, the permittee must also submit these reports, to DEP in the format specified by DEP.

#### VI. WORK PRACTICE REQUIREMENTS.

# # 021 [25 Pa. Code §127.12b] Plan approval terms and conditions.

- (a) Continuous emission monitoring systems and components must be operated and maintained in accordance with the requirements established in 25 Pa. Code Chapter 139, subchapter C and the Quality Assurance requirements in Revision No. 8 of the Department's Continuous Source Monitoring Manual 274-0300-001.
- (b) In accordance with 25 Pa. Code Section 139.101(12), required monitoring shall, at a minimum, meet one of the following data availability requirements unless otherwise stipulated in this permit, a plan approval, Title 25 or an order issued under Section 4 of the Air Pollution Control Act:
- (1) In each calendar month, at least 90% of the time periods for which an emission standard or an operational parameter applies, shall be valid as set forth in the Quality Assurance section of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001; or
- (2) In each calendar quarter, at least 95% of the hours shall be valid as set forth in the Quality Assurance section of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

#### # 022 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7500]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.

What emission limits, work practice standards, and operating limits must I meet?

As per 40 C.F.R. §63.7500(a)(3), the permittee must operate and maintain the boiler in a manner consistent with safety and good air pollution control practices for minimizing emissions at all times. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Department that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

#### # 023 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7515]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.

When must I conduct subsequent performance tests or fuel analyses?

As per 40 C.F.R. §§63.7515(d) and 63.7540(12),

- (a) The permittee must conduct a 5-year performance tune-up specified in 40 C.F.R. §63.7540(a)(10)(i) through (vi).
- (b) The first 5-year tune-up must be conducted no later than 61 months after the initial startup of the boiler.



(c) Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up.

#### # 024 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7540]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.

How do I demonstrate continuous compliance with the emission limits and work practice standards?

- (a) As per 40 C.F.R. §§63.7510(g), 63.7515(d), and 63.7540(a)(12), the permittee must conduct a 5-year tune-up of the boiler as specified in 40 C.F.R. §63.7540(a)(10)(i) through (vi) to demonstrate continuous compliance.
- (b) As per 40 C.F.R. §63.7540(a)(10), each tune-up of the boiler must be conducted as specified below:
- (i) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown);
- (ii) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
- (iii) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown);
- (iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject;
- (v) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and
- (vi) Maintain on-site and submit, if requested by the Administrator, a 5 year report containing the information in paragraphs (a)(10)(vi)(A) through (B) of this section,
- (A) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler;
- (B) A description of any corrective actions taken as a part of the tune-up; and
- (C) The type and amount of fuel used over the 60 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.
- (c) As per 40 C.F.R. §63.7540(12), the permittee may delay the burner inspection specified in paragraph (b)(i) above until the next scheduled or unscheduled unit shutdown, but the permittee must inspect each burner at least once every 72 months.
- (d) As per 40 C.F.R. §63.7540(a)(13), if the boiler is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup.

#### VII. ADDITIONAL REQUIREMENTS.

#### # 025 [25 Pa. Code §145.4.] Applicability.

The boiler is subject to the NOx Budget Trading Program as per 25 Pa. Code §145.4(a)(2)(iii)(A). The permittee shall comply with all applicable requirements as specified in 25 Pa. Code Chapter 145.



### # 026 [25 Pa. Code §145.8.]

Transition to CAIR NOx Trading Programs.

The permittee shall comply with all applicable requirements as specified in 25 Pa. Code §145.8(d) - Non-EGU NOx Trading Program Budget:

- (1) Statewide limitation. The sum of NOx ozone season emissions from all units subject to this subsection may not exceed the Commonwealth's non-EGU NOx Trading Program budget of 3,619 tons during any ozone season.
- (2) CAIR NOx ozone season allowances. All units subject to this subsection shall monitor and report NOx emissions in accordance with 40 CFR Part 96, Subpart HHHH (relating to monitoring and reporting), and establish a CAIR-authorized account representative and general account, in accordance with 40 CFR Part 96, Subparts BBBB and FFFF (relating to CAIR designated representative for CAIR NOx ozone season sources; and CAIR NOx ozone season allowance tracking system), incorporated into Subchapter D by reference, for the purposes of ensuring continued compliance with the non-EGU NOx Trading Program budget limitation of paragraph (1) and of retiring CAIR NOx ozone season allowances.
- (3) CAIR NOx allowances. All units subject to this subsection shall establish a CAIR-authorized account representative and general account in accordance with 40 CFR Part 96, Subparts BB and FF (relating to CAIR designated representative for CAIR NOx sources; and CAIR NOx allowance tracking system), incorporated into Subchapter D by reference, for the purpose of retiring CAIR NOx allowances.
- (4) Emissions below Statewide limitation. If the total ozone season emissions from all units subject to this subsection are less than 3,438 tons of NOx, the Department's permanent retirement of allowances covers all applicable emissions and no additional account transactions are required by the units covered under this subsection.
- (5) Allowable emissions per unit. By January 31, 2009, and by January 31 of each year thereafter, the Department will determine the allowable amount of NOx emissions for the next ozone season for each unit subject to this subsection, as follows:

Allowable	amieeian	rate X each	unit's	haat	innut
Allowable	emission	Tale A each	unns	near	шили

Where "Allowable emission rate" =

3,438 tons of NOx

Combined heat input of all units during the most recent ozone season

- (6) Allowance surrender for excess emissions. If the combined NOx emissions from all units subject to this subsection exceed 3,438 tons in an ozone season, then a unit whose actual emissions exceed the unit's allowable emissions for that ozone season, as determined under paragraph (5), shall surrender to the Department by April 30 of the year following the ozone season one CAIR NOx ozone season allowance and one CAIR NOx allowance for each ton of excess emissions. A unit whose excess emissions are 0.5 ton or greater of the next excess ton shall surrender 1 full ton of CAIR NOx allowances (banked or current) for that excess emission. Units under common ownership may include the allowable and actual emissions from multiple units to determine whether a unit must surrender allowances.
- (7) Surrender procedure. To surrender allowances under paragraph (6), an owner or operator of a unit shall surrender the required CAIR NOx ozone season allowances and CAIR NOx allowances to the Department's designated NOx allowance tracking system account and provide to the Department, in writing, the following:
- (i) The serial number of each allowance surrendered.
- (ii) The calculations used to determine the quantity of allowances required to be surrendered.
- (8) Failure to surrender allowances. If an owner or operator fails to comply with paragraph (6), the owner or operator shall by June 30 surrender three CAIR NOx ozone season allowances and three CAIR NOx allowances of the current or later year vintage for each ton of excess emissions as calculated under paragraph (6).



- (9) Liability not affected. The surrender of CAIR NOx ozone season allowances and CAIR NOx allowances under paragraph (6) does not affect the liability of the owner or operator of the unit for any fine, penalty or assessment, or an obligation to comply with any other remedy for the same violation, under the CAA or the act.
- (i) For purposes of determining the number of days of violation, if a facility has excess emissions for the period May 1 through September 30, each day in that period (153 days) constitutes a day in violation unless the owner or operator of the unit demonstrates that a lesser number of days should be considered.
- (ii) Each ton of excess emissions is a separate violation.
- (10) Allowance retirement. The Department will permanently retire to the Department's CAIR NOx retirement account the allowances surrendered under paragraphs (6)--(9).
- (11) Actual emissions below allowable emissions. If a facility's allowable emissions exceed the facility's actual emissions for an ozone season, the owner or operator may deduct the difference or any portion of the difference from the actual emissions of units under the facility's common control that are subject to §§ 129.201--129.203 (relating to boilers; stationary combustion turbines; and stationary internal combustion engines).
- (12) Corrections. One hundred and eighty-one tons of allowable NOx emissions are available to the Department annually for accounting corrections.

#### # 027 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7495]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.

When do I have to comply with this subpart?

As per 40 C.F.R. §63.7495(a), the permittee must comply with 40 C.F.R. 63 subpart DDDDD for this boiler upon startup of this boiler.

### # 028 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7565]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.

What parts of the General Provisions apply to me?

The permittee shall comply with the General Provisions in 40 C.F.R. §§63.1 through 63.15 that apply.





# **SECTION E.** Alternative Operation Requirements.

No Alternative Operations exist for this Plan Approval facility.







# **SECTION F.** Emission Restriction Summary.

Source Id	Source Description		
053	BOILER 14		
<b>Emission Limit</b>			Pollutant
0.019	Lbs/MMBTU	Average of three (3) one-hr tests	CO
29.630	Tons/Yr	12-month rolling sum	CO
0.008	Lbs/MMBTU	30-day rolling average	NOX
0.210	Lbs/MMBTU	30-day rolling avg.	NOX
11.700	Tons/Yr	12-month rolling sum	NOX
0.009	Lbs/MMBTU	Average of three (3) one-hr tests	PM10
13.520	Tons/Yr	12-month rolling sum	PM10
0.009	Lbs/MMBTU	Average of three (3) one-hr tests	PM2.5
9.900	Tons/Yr	12-month rolling sum	PM2.5
12.020	Tons/Yr	12-month rolling sum	SOX
0.001	Lbs/MMBTU	Average of three (3) one-hr tests	VOC
1.980	Tons/Yr	12-month rolling sum	VOC

# **Site Emission Restriction Summary**

Emission Limit	Pollutant





# **SECTION G.** Miscellaneous.

April 8, 2015, AUTH ID 1070615: Minor modification.

July 2015: Corrections made to Condition #002 in Section C.



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\*\*\*\*\* End of Report \*\*\*\*\*\*